SMIRNOV, I. P.

Rivers

Measurements of depths based on the hydrometric level of mountain rivers and calculation of stream deformations in evaluation of flow, Met. i gidrol., No. 5, 1949.

Monthly List of Russian Accessions, Library of Congress, October, 1952.   UNCLASSIFIED.

SMIRNOV, I.P.

Studying the basic elements of flood streams by their remnants.
Trudy Kaz. NIGMI no.9:32-42 '57.   (MIRA 11:1)
                    (Floods)   (Stream measurements)

KAVETSKIY, S.P.; SMIRNOV, I.P.

Studying flood streams not caused by cloudbursts. Trudy Kaz. NIGMI
no.9:43-52 '57.
(MIRA 11:1)

(Floods)   (Stream measurements)

SMIRNOV, I.P.

Roughness coefficients of erosion-active mud flows. Trudy
SANIGMI no.12:73-80 '59.   (MIRA 13:5)
                (Floods)

SOV/123-59-16-64097

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 73 (USSR)

AUTHORS: Polovnikov, V.V., Smirnov, I.P.

TITLE: Combined Hot and Cold Rolling of Gears of Medium Module

ABSTRACT: The kinematic scheme of an industrial rolling mill and the technology of
                the hot and cold rolling of gears, as it is applied at the Khar'kov Trac-
                tor Plant, are described. In order to reduce the thermal buckling of
                the gear the rolling process is divided into two stages: preliminary
                hot rolling with induction heating of the blank and the final cold rol-
                ling. The division of this process permitted to obtain gears of medium
                module of the 2nd and 3rd class of accuracy by rolling without their sub-
                sequent milling and shaving. The temperature of induction heating amounted
                to 1,200°C with a maximum heating intensity and a minimum of heating depth.
                The specific power consumed was 1.5 kw/cm^2.

                                                          Zh.V.T.

Card 1/1

KOLOMENSKIY, A.A., glav. red.; KUZNETSOV, A.B., red.; LEBEDEV,
       A.N., red.; ALYAB'YEV, A.F., red.; MURADOVA, A.A., red.;
SMIRNOV, I.P., red.

Transactions   of the International Conference on High
Energy Accelerators. Trudy Mezhdunarodnoi konferentsii
po uskoriteliam. Pod red. A.A.Kolomenskogo, A.B.Kuznetsova,
A.N.Lebedeva. Moskva, Atomizdat, 1964. 1091 p. [In Rus-
sian and English] ___ List of participants of the International
Conference on High Energy Accelerators. Spisok uchastnikov Mezh-
dunarodnoi konferentsii po uskoriteliam (Dubna, 21-27 avgust
1963 g.). Moskva, Atomizdat, 1964. 13 p.   (MIRA 17:9)

1. International Conference on High Energy Accelerators. Dubna,
1963. 2. Fizicheskiy institut im. P.N.Lebedeva AN SSSR, Moskva
(for Kolomenskiy, Lebedev).

ALEKSENKO, Yu.N., kand. tekhn. nauk, otv. red.; BELKGAUT, V.R.,
    red.; VINOGRADOVA, O.K., red.; SMIRNOV, I.P., red.

[Study of the use of organic coolant-moderators in power
reactors] Issledovaniia po primeneniiu organicheskikh
teplonositelei - zamedlitelei v energeticheskikh reakto-
rakh. Moskva, Atomizdat, 1964. 243 p.   (MIRA 18:1)

1. Moscow. Institut atomnoy energii im. I.V.Kurchatova.

NEVSKIY, B.V.; SMIRNOV, I.P.; PIRKOVSKIY, S.A.

Effect of the mass transfer intensity on certain indicators
in the process of autoclave leaching of uranium ore. Atom.
energ. 17 no.3:201-205 S '64.   (MIRA 17:9)

SMIRNOV, I. P.

Evaluation of the pepsin-forming function of the stomach by
determination of pepsin in the gastric contents and uropepsin
in the urine in some stomach diseases. Terap. arkh. 33 no.5:63-65
My '61.   (MIRA 14:12)

1. Iz kafedry terapii dlya usovershenstvovaniya vrachey No. 2 (nach. -
prof. G. A. Smagin) Voyenno-meditsinskoy ordena Lenina akademii imeni
S. M. Kirova.

     (PEPSIN)   (UROPEPSIN)   (STOMACH—DISEASES)
       (URINE—ANALYSIS AND PATHOLOGY)

SMIRNOV, I.P. (Leningrad)

Uropepsin excretion in some stomach diseases verified by gastro-
scopy. Terap.arkh. 33 no.11:61-64 '61.   (MIRA 15:5)

1. Iz kafedry terapii dlya usovershenstvovaniya vrachey No.2
(nach. - prof. G.A. Smagin) Voyenno-meditsinskoy ordena Lenina
imeni S.M. Kirova.
          (UROPEPSIN) (STOMACH—DISEASES) (GASTROSCOPY)

SMIRNOV, I.P.

Dependence of uropepsin excretion on pepsin excretion in the stomach.
Fiziol. zhur. 48 no.1:82-85 Ja '62.   (MIRA 15:2)

1. Kafedra terapii dlya usovershenstvovaniya vrachey No.2 Voyenno-
meditsinskoy akademii imeni S.M.Kirova, Leningrad.
        (PEPSIN)   (UROPEPSIN)

SMIRNOV, I.P. (Leningrad)

Side effects of ACTH and cortisone on gastric secretion. Klin.
med. no.1:114-116 '62.   (MIRA 15:1)

1. Iz kafedry terapii dlya usovershenstvovaniya vrachey No.2
(nachal'nik – prof. G.A. Smagin) Voyenno-meditsinskoy ordena
Lenina akademii imeni S.M. Kirova.
       (GASTRIC JUICE) (ACTH)   (CORTISONE)

SMIRNOV, I.P. (Leningrad)

Evaluation of the indications of uropepsin elimination in
normal persons. Vrach. delo no.2:139-140 F '62. (MIRA 15:3)

1. Kafedra terapii (nachal'nik - prof., general-mayor
meditsinskoy sluzhby G.A. Smagin) Voyenno-meditsinskoy
ordena Lenina akademii imeni S.M. Kirova.
                    (UROPEPSIN)
          (URINE—ANALYSIS AND PATHOLOGY)

SMIRNOV, I.P.

Comparative evaluation of the determination of pepsin activity by the
methods of Mett and of Ege and Menck-Thygesen modified by N.P.Piatnitskii.
Lab. delo 8 no.3:6-8 Mr '62.   (MIRA 15:5)

1. Kafedra terapii dlya usovershenstvovaniya vrachey No.2 (nachal'nik
prof. G.A.Smagin) Voyenno-meditsinskoy ordena Lenina akademii imeni
S.M.Kirova, Leningrad.
                 (PEPSIN)   (GASTRIC JUICE)

SMIRNOV, I.P. (Leningrad)

    Dercum's syndrome. Sov. med. 28 no.3:108-110 Mr '65.

                                       (MIRA 18:10)

SMIRNOV, I.P.

[Production of medical instruments and equipment in the U.S.S.R.]
Proizvodstvo meditsinskogo instrumentariia i oborudovaniia v
SSSR. Moskva, Izd-vo Akademii nauk SSSR, 1954. 22 p.(MLRA 8:11)
        (MEDICAL INSTRUMENTS AND APPRATUS)

SMIRNOV, I.P.

Modern medical equipment in the service of Soviet public health.
Med.prom. 11 no.10:32-35 O '57.   (MIRA 11:1)
    (MEDICAL INSTRUMENTS AND APPARATUS)

SMIRNOV, I.P.

Specialization in the All-Union Scientific Research Institute of
Medical Instruments and Equipment. Med.prom. 14 no.4:3-6 Ap '60.
(MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.
(MEDICAL INSTRUMENTS AND APPARATUS)

GAYSINSKIY, B. Ye., doktor med. nauk; SMIRNOV, I. P., kand. tekhn. nauk

Technology in new preventive medicine institutions. Zdrav. Ros. Feder. 6 no.8:21-22 Ag '62.   (MIRA 15:7)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta meditsinskikh instrumentov i oborudovaniya (dir. I. P. Smirnov).

(MEDICINE, PREVENTIVE)

SMIRNOV, I.P., kand. tekhn.nauk, otv. red.; PEKARSKIY, M.D.,
       kand. tekhn. nauk, zam. otv. red.; BOLDYREV, B.V.;
       red.; VOLODIN, Ye.A., red.; GAYSINSKIY, B.Ye., red.;
       DANIL'CHENKO, Ye.P., red.; KABATOV, Yu.F., red.;
       KALANTAROV, K.D., red.; MISHIN, L.N., red.; ORSKIY, I.N.,
       red.; FEDURKIN, V.V., red.; TSEPELEV, Yu.A., red.

       [Materials of the scientific session devoted to the 25th
       anniversary of the All-Union Scientific Research Insti-
       tute for Medical Instruments and Equipment] Materialy
       nauchnoi sessii, posviashchennoi 25-letiiu VNIIMIO. Mo-
       skva, 1962. 65 p.   (MIRA 17:2)

       1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
       meditsinskogo instrumentariya i oborudovaniya. 2. Zame-
       stitel' direktora Vsesoyuznogo nauchno-issledovatel'skogo
       instituta meditsinskogo instrumentariya i oborudovaniya
       (for Pekarskiy). 2. Direktor Vsesoyuznogo nauchno-
       issledovatel'skogo instituta meditsinskogo instrumentariya
       i oborudovaniya (for Smirnov).

SMIRNOV, I.S.

6

11576*   (Russian.) Energy of Ionization by Electrons in
Germanium Crystals. Energiia ionizatsii elektronami v kris-
tallakh germaniia. V. S. Vavilov, I. S. Smirnov, and V. M.
Patskevich. *Doklady Akademii Nauk SSSR*, v. 112, Feb. 21,
1957, p. 1020-1022.
The loss of energy by fast particles passing through crystals is
related to ionization. The average energy loss for the formation
of one pair of carriers depends on the type of excitation.

SMIRNOV, I. S. and SHEVTSOV, V. N.

"Henrich Osipovich Graftio," State Power Publishing House, Moscow, 1955
(64 pages)

This pamphlet is a concise biography of the Soviet hydro-electric station
engineer and builder. It contains accounts of the building of several Soviet hydro-
electric stations together with photographs and drawings.

SMIRNOV, I.S.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of
science and inventions announces that the following scientific works, popular scien-
tific books, and textbooks have been submitted for competition for Stalin Prizes for
the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Matsepuro, M.Ye. Sazonov, N.A. Timchuk, I.M. Tyulpanov, A.I. Kandybovich, A.S. Krivodubskiy, I.P. Pekelis, G.M. Smirnov, I.S.	"Local Power Resources of the Belorussian SSR and a Plan for Their Utilization for the Wide Electri- fication of Agriculture"	Department of Physicomathemat- ical and Technical Sciences, Academy of Sciences Belorussian SSR

SO: W-30504, 7 July 1954

SMIRNOV, I. S.

"Method of Delivery without Flexion of the Head and Avoiding Rupture of the Perineum," Akusher. i Ginkol., No. 2, 1949. Chief Physician, Armavir City Maternity Home, -c1949-.

SMIRNOV, I. S.

Feeding and Feeding Stuffs

Hack work instead of a textbook ("Feed production on collective farms of Siberia."
Z. O. Krasikov, A. G. Kalmykov. Reviewed by I. S. Smirnov)., Korm. baza, 3, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1952 1953, Uncl.

Shipman, L. S.

Berinevich, V. A.

Valuable aid in calculating dry roughage ("Determining weight of dry roughage in piles and stacks." V. A. Berinevich. Reviewed by I. S. Smirnov). Kerm.baza 3 No. 5 1952

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, September 1952. Uncl.

1. SMIRNOV, I. S.

2. USSR (600)

4. Feeding and Feeding Stuffs

7. "Problems in the economics and organization of the feed supply on collective farms."
    Reviewed by I. S. Smirnov. Sov. zootekh. 7 no. 12, 1952.

9. <u>Monthly</u> <u>List</u> <u>of</u> <u>Russian</u> <u>Accessions</u>, Library of Congress, <u>February</u>   1953. Unclassified.

MOVSISIANTS, A. P., SMIRNOV, I. S.

Feeding and Feeding Stuffs

Build up a larger feed supply for communal animal husbandry. Sots. zhiv, 14 no. 8, 1952.

BORINEVICH, Vladimir Antonovich,; SMIRNOV, I.S., red.; MAKAROVA, O.K., red.;
KAPRALOVA, A.A., tekhn. red.

[Calculating the weight of ensilage in silo installations and in
piles] Opredelenie vesa silosovannogo korma v silosnykh sooruzheniiakh
i burtakh. Izd. 2., dop. i perer. Moskva, Gos. stat. izd-vo, 1957.
115 p.   (MIRA 11:12)
                              (Ensilage)

FPIR 0273/67

UDC: 614.2/615.47]:(519.24/681.14

ic Research Institute of Medical Instru-

d Computer Equipment in Public Health

ost' SSSR, No 12, Dec 66, pp 10-16

action devoted to the possible uses of
equipment in medicine and public health,
tial with the example of using mathema-
e the optimum network of medical estab-
d to select a solution in developing.
ats both of these subjects very generally
case an approximate method for calcula-
ital as a function of bed cost, on the
of delays in treatment because of hos-
d case, he discusses the use of mathe-
heart pacemakers with feedback that
y as a function of load (respiration).
s the new science of medical systems

Development of the oxygen-gasoline welding. I. S. Smirnov. *Avtogennoe Delo* (U. S. S. R.) 5, No. 7, 28 p< (1934).—The O-gasoline welding is superior to the O-C₂H₂ process since it produces a weld of higher quality and is more economical.   I. Jacovleff

CA

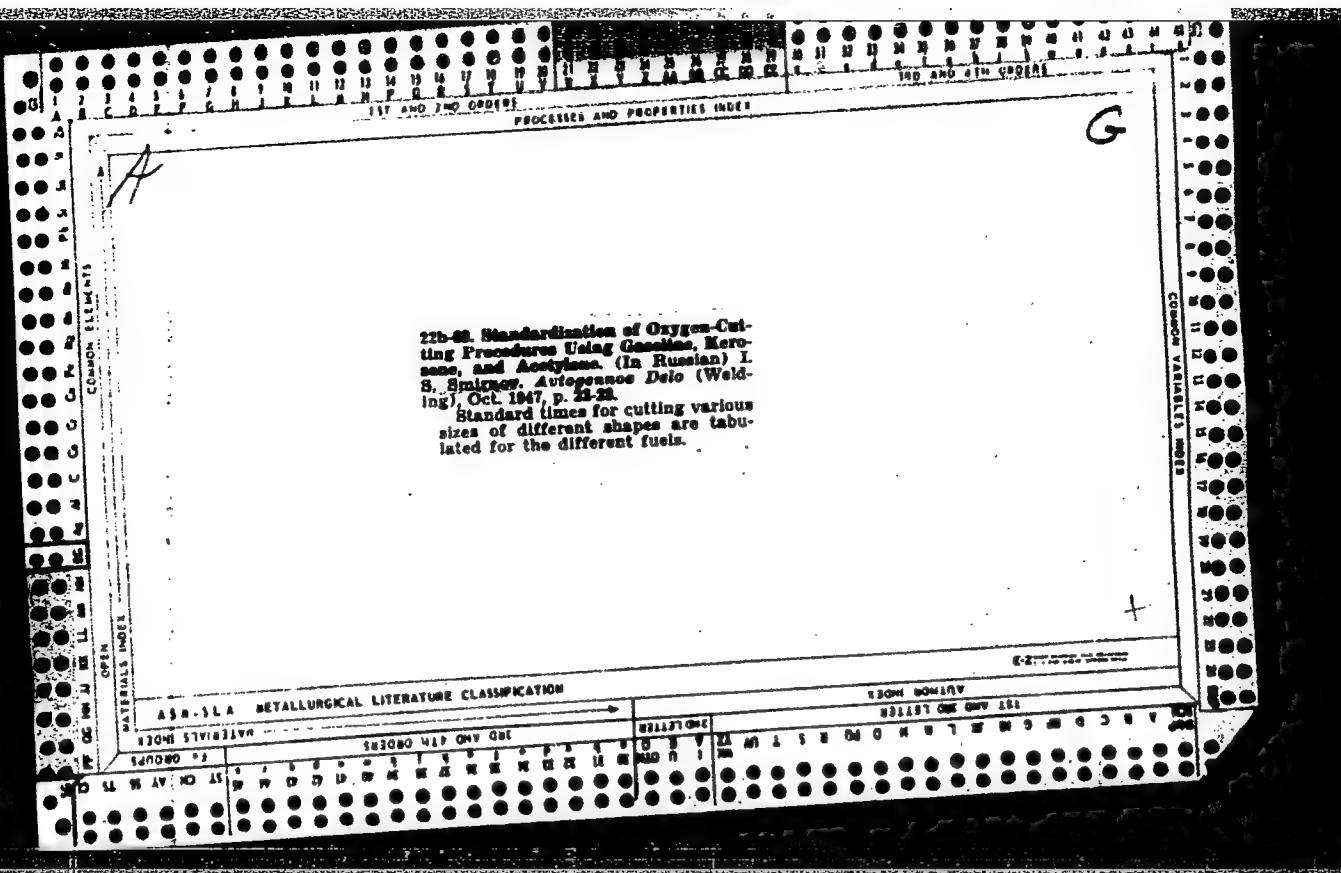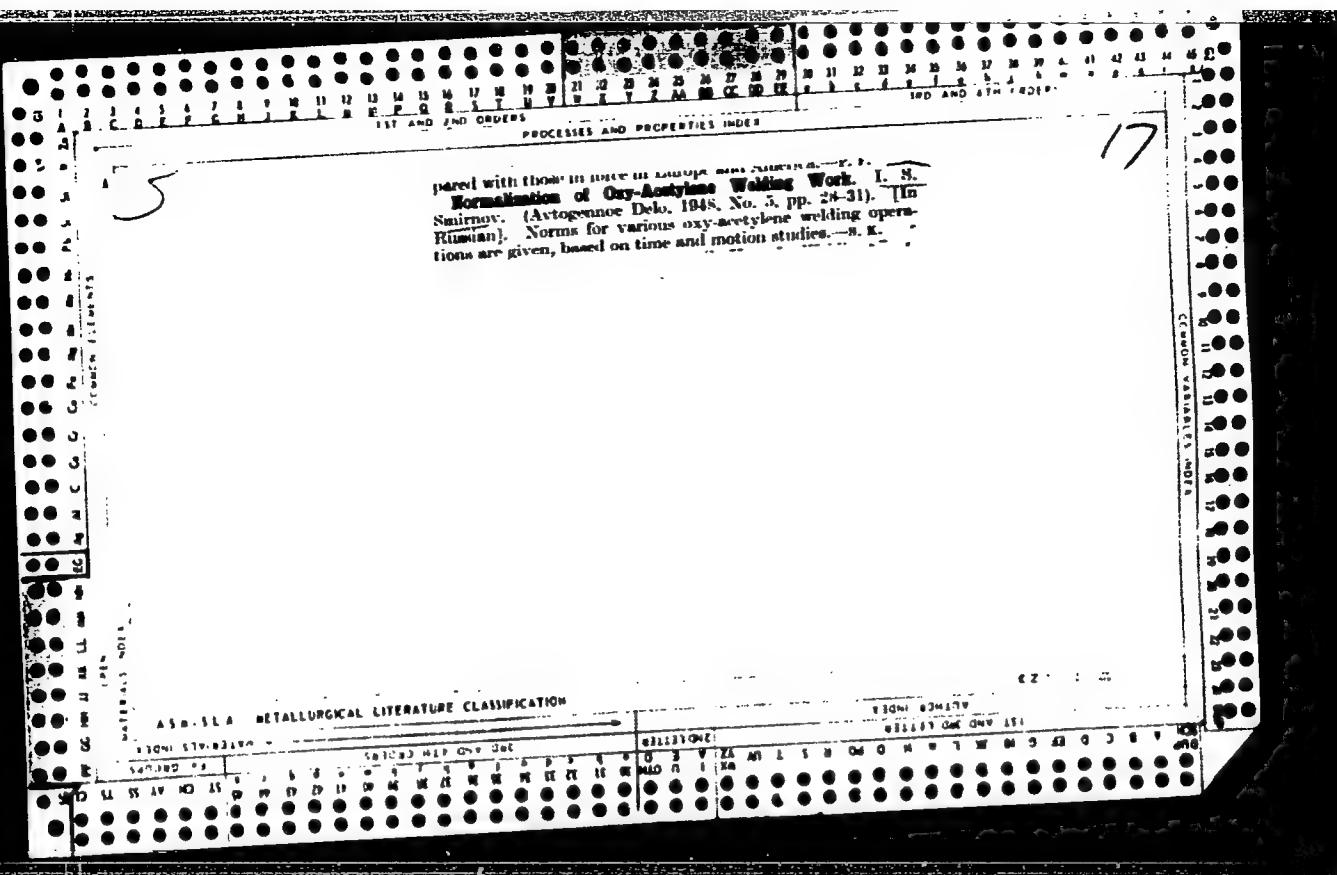Consumption of oxygen and gasoline in cutting with a gasoline-oxygen flame. I. S. Smirnov. *Avtogennoe Delo* (U. S. S. R.) 6, No. 5, 23 4(1935); cf. C. A. 29, 7929. The consumption of gases depends on the thickness of the material, the O pressure, its purity and the quality of gasoline.
L. Jacovleff

A S B - S L A   METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

Technical Standardization and Costs of Gas Welding of Copper and Aluminium Sections. J. S. Smirnow (*Avtogennoe Delo* (*Autogenous Practice*), 1935, (12), 24–25).—[In Russian.] A study of causes, with numerical data, affecting expenditure of time and materials.—N. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

G

22b-68. Standardization of Oxygen-Cutting Procedures Using Gasoline, Kerosene, and Acetylene. (In Russian) I. S. Smirnov. *Avtogennoe Delo* (Welding), Oct. 1947, p. 21-23.

Standard times for cutting various sizes of different shapes are tabulated for the different fuels.

COMMON ELEMENTS

MATERIALS INDEX

OPEN

A.S.M.-S.L.A.   METALLURGICAL LITERATURE CLASSIFICATION

17

PROCESSES AND PROPERTIES INDEX

pared with those in force in Europe and America.—F. I. **Normalization of Oxy-Acetylene Welding Work.** I. S. Smirnov. (Avtogennoe Delo, 1948, No. 5, pp. 28-31). [In Russian]. Norms for various oxy-acetylene welding operations are given, based on time and motion studies.—S. K.

A S M - S L A METALLURGICAL LITERATURE CLASSIFICATION

DENISOV, Yu.A., kand.tekhn.nauk; SMIRNOV, I.S., inzh.

Welding innovator's day in Kurgan. Svar. proizv. no.2:46 F '63.
(MIRA 16:2)

(Kurgan—Welding—Technological innovations)

VOLCHEK, Ya.L., inzh. (Rostov-na-Donu); SMIRNOV, I.T., inzh. (Rostov-na-Donu)

Planning of operations on railroads under the new conditions.
Zhel. dor. transp. 45 no.11:60-64 N '63.   (MIRA 16:12)

1. Nachal'nik sluzhby dvizheniya Severo-Kavkazskoy dorogi (for
Volchek). 2. Zamestitel' nachal'nika operativno-rasporyaditel'-
nogo otdela sluzhby dvizheniya Severo-Kavkazskoy dorogi (for
Smirnov).

SMIRNOV, I. V.

V Correction tables for calculating thermodynamic quanti-
ties by spectral data at high temperatures. I. V. Smirnov
and A. V. Frost. Uchenye Zapiski Moskov. Gosudarst.
Univ. 164, 145-51(1953); Referat. Zhur., Fiz. 1955, No.
2535.—A calcn. of vibrational components of basic thermo-
dynamic quantities of bivalent mols. in the vapor state is
made by quantum statistical methods. M K.

SKLYARENKO, S.I.; SMIRNOV, I.V.; BELYAYEVA, L.B.; MALYSHEVA, Ye.A. (Moscow)

Microviscosimeter. Zhur. fiz. khim. 34 no.4:921-924 Ap '60.
(MIRA 14:5)

(Viscosimeter)

AUTHORS: Sklyarenko, S. I., Smirnov, I. V., Belyayeva, L. B.,
Malysheva, Ye. A.

TITLE: A Simple Apparatus for Establishing Pressures of Preset
Values up to 200 Atmospheres

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 5,
pp. 1136-1137

TEXT: A simple apparatus for establishing pressures up to 200 atm in
small sealed vessels is described. The device (Fig.) is a hermetically
sealed steel cylinder with a screwed-on cover and thermometer. The bottom
of the cylinder ends in a capillary tube which is introduced into the
vessel in which the pressure is to be established. The cylinder is
filled with water and put in an oven. The vapor pressure of the water
presses it through the capillary tube and produces the required pressure
in the vessel. If the pressing-in of the water into the vessel is to be
avoided, an intermediate vessel filled with mercury (or another liquid)

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S/217/63/008/001/001/002

AUTHOR: Smirnov, I. V.

TITLE: The theoretical basis of cultivation of one-celled algae

PERIODICAL: Biofizika, v. 8, no. 1, 1963, 90-100

TEXT: The purpose of this article was to justify a mathematical approach to the principle of cultivating chlorella which would permit theoretical evaluation of productivity of culture with different methods of culturing, depending on basic biological and design factors. Basic assumptions were: mineral components and carbon dioxide in suspension remained sufficient to maintain natural growth, the light on the suspension was constant, the density of the suspension was constant throughout the culturing cell, and respiration of the cells did not depend on the light and was proportional to the mass of biological material. As the processes of growth of the biological mass was accompanied by respiration (loss of organic material and absorption of oxygen), the total change in the biological mass with time was

$$dG/dt = \gamma_{\lambda p} \cdot S \cdot I_{\lambda 0} - \gamma_{\lambda p} \cdot S \cdot I_{\lambda 0} \cdot e^{-K_\lambda (G/V) d_0} - \gamma_g G \quad (4)$$

where G is the quantity of biological material, S the surface of the suspension,

Card 1 of 4

The theoretical basis of cultivation...

$I_{\lambda 0}$ the spectral intensity of the incident light flux with reflection taken into account, K_{λ} the spectral absorption coefficient of the suspension, d_0 the initial thickness of the layer of suspension, $\gamma_{\lambda p}$ the spectral coefficient of proportionality between the amount of the absorbed radiant energy and the increment to the biological material, and γ_g the proportionality coefficient of the amount of biological material and the intensity of respiration. When the density of the suspension is high enough (at 200 million per cm^{-3}, equation (4) can be simplified to

$$dG/dt + \gamma_g G = \gamma_{\lambda p} \cdot S \cdot I_{\lambda 0} \tag{7}$$

The solution of equation (7) for monochromatic light will be of the form

$$G(t) = \gamma_{\lambda p} \cdot S \cdot I_{\lambda 0}/\gamma_g - (\gamma_{\lambda p} \cdot S \cdot I_{\lambda 0}/\gamma_g - G_0) \cdot e^{-\gamma_g t} \tag{10}$$

It is of practical interest to know the coordinates of the curve of the growth of $G(t)$ where the increment in the biological mass is maximum for given irradiation of chlorella. Since $V = S \cdot d$,

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The theoretical basis of cultivation ....

$$G_{max} = S/K_\lambda \cdot \ln \gamma_{\lambda p} \cdot I_{\lambda 0} \cdot K_\lambda / \gamma_g \qquad (13)$$

Setting $G_{max} = 0$

$$\gamma_{\lambda p} \cdot I_{\lambda 0} \cdot K_\lambda / \gamma_g = 1 \qquad (14)$$

from which limit values of the coefficients can be found. The following dependence of the volume of the suspension on the density for maximum increment in growth was obtained

$$V = S/C_{v\,max} K_\lambda)(\ln \gamma_{\lambda p} \cdot I_{\lambda 0} \cdot K_\lambda / \gamma_g) \qquad (16)$$

where $C_{v\,max}$ is the concentration of the biological mass in the suspension.

This mathematical description was tested experimentally with a flat culturing cell lighted on both sides and supplied with carbon dioxide. The experimental curves and theoretical curves for $G(t)$ agreed well. The conclusions were: 1) This mathematical method agreed quite well with the experimental curve of growth of $G(t)$ for practical purposes under the given conditions. 2) The chosen coefficients of growth γ_p and respiration γ_g permit one to calculate the productivity under

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The theoretical basis ....

these conditions for different biological masses according to changes in parameters
such as the intensity of irradiation, thickness of the suspension, stirring the sus-
pension, etc. 3) Small culturing cells require high densities of suspensions, thin
suspension layers, and chlorella strains with high correlation between intensity of
photosynthesis and intensity of light flux. Seven figures and 2 tables were given.

Card 4 of 4

APATOVSKIY, B.Ye., inzh.; SMIRNOV, I.V., slesar'

Automatic device for manufacturing paper cable sleeves. Vest.
sviazi 23 no.12:10-11 D '63.   (MIRA 17:2)

SMIRNOV, I.V., kand. med. nauk

Use of lidase for reducing postoperative edema in operations
on the eyelids. Vestn. oftal. 76 no.4:38-40 Jl-Ag'63
(MIRA 17:1)

1. Filial Nauchno-issledovatel'skogo instituta glaznykh bo-
lezney imeni Gel'mgol'tsa (dir. F.I.Purshev), Cheboksary.

LATIREV, I.V.; KOLOTOV, M.G.

Automatic machine for manufacturing paper sleeves for cables.
Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh.
inform. 17 no.4:43-44 Ap '64.   (MIRA 17:6)

ACCESSION NR: AT4037713

S/2865/64/003/000/0432/0448

AUTHOR: Smirnov, I. V.

TITLE: Mathematical analysis of mass cultivation of chlorella in assymetrically shaped biological cultivators

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy* kosmicheskoy biologii, v. 3, 1964, 432-448

TOPIC TAGS: air regeneration, algae cultivation, algae, Chlorella, closed ecological system, manned space flight,

ABSTRACT: A method for quantitative analysis of variations in productivity of a biological cultivator for chlorella caused by a change in its shape from " symmetrical" to "asymmetrical" is presented. As an example of a symmetrical cultivator, one is selected with the shape of a rectangular flat prism. Three differential equations describing the large-scale chlorella-cultivation process in such a cultivator are given for various relations between the radiation-flux intensities before and behind the cultivator. As the first asymmetrical cultivator, one with a step-shaped cross section is discussed. The parameters of the cultiva-

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tion process (increase of cultivator efficiency, the biomass production per liter of suspension, the rate of chlorella growth, etc.) are calculated for both symmetrical and asymmetrical types of cultivators (of the same area and under radiation flux of the same intensity), and results are presented in tables and diagrams. The inferiority of the asymmetrical type is established, the inevitability of this fact is analytically proven, and it is shown that to each suspension thickness and flux intensity corresponds a certain value of the rate of the maximum chlorella growth. The effect of geometrical cultivator parameters on cultivator efficiency is analyzed. As the second asymmetrical cultivator, one with a triangular cross section is discussed. A comparative analysis of its characteristics and of those of a symmetrical cultivator is carried out, and the results are shown in a diagram. The efficiency of a cultivator of nonsymmetrical cylindrical cross section is analyzed in two cases: a cultivator with a suspension layer uniformly distributed over its surface, and the same cultivator with a certain amount of suspension accumulated at its bottom. The efficiency data of these cultivators are illustrated by a diagram showing the advantages of symmetrical cultivators. The conditions of ensuring the gas exchange for one man by a symmetrical biological cultivator are discussed by analyzing the effect of the flux intensity on the irradiated area, suspension volume, and radiation energy, assuming an oxygen consumption of 550

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ACCESSION NR: AT4037713

liters per day. The calculation data are presented in a diagram. The parameters
of a cultivator subjected to high and low flux intensities are quantitatively
analyzed as related to its weight and overall dimensions.

ASSOCIATION: none

SUBMITTED: 00   ENCL: 00   SUB CODE: LS, MA

NO REF SOV: 001   OTHER: 000

Card 3/3

SMIRNOV, I. V.: Master Med Sci (diss) -- "Clinical observations of changes in the fundus oculi in hypertension disease and the treatment of its complications by subconjunctival introduction of oxygen". Minsk, 1958. 11 pp (Minsk State Med Inst), 180 copies (KL, No 5, 1959, 157)

SMIRNOV, I.V., kand.med.nauk

Measurements in the fundus oculi. Oft.zhur. 15 no.7:411-413 '60.
(MIRA 13:11)

1. Iz Slonimskoy rayonnoy bol'nitsy (nauchnyy rukovoditel' -
zav. kafedroy glaznykh bolezney prof. T.V.Birich Minskogo meditsinskogo
instituta).
(EYE--BLOOD-VESSELS)
(EYE--EXAMINATION)

SMIRNOV, I.V.

Syndrome of oxygen starvation of the retina in hypertension.
Sov. med. 24 no. 10:112-113 O '60.   (MIRA 13:12)

1. Iz Slonimskoy rayonnoy bol'nitsy (glavnyy vrach O.P. Viktorova)
Grodnenskoy oblasti.
     (RETINA—BLOOD SUPPLY)   (HYPERTENSION)

SMIRNOV, I. V., kand. med. nauk

Case of 2-year areactive retention of an eyelash in the anterior
chamber and iris of the eye. Oft. zhur. 17 no.4:249-250 '62.
(MIRA 15:7)

1. Iz Cheboksarskogo filiala Nauchno-issledovatel'skogo insti-
tuta glaznykh bolezney imeni Gel'mgol'tsa (direktor - kand. med.
nauk F. I. Purshev).

(EYE—FOREIGN BODIES)
(IRIS(EYE)—FOREIGN BODIES)

SMIRNOV, I.V.

Intracapsular extraction of the crystalline lens with the use of a-chymotrypsin. Uch.zap. GNII glaz.bol. no.8:136-138'63.
(MIRA 16:9)

1. Filial Gosudarstvennogo nauchno-issledovatel'skogo instituta glaznykh bolezney imeni Gel'mgol'tsa v gorode Cheboksary.
(CRYSTALLINE LENS)   (CHYMOTRYPSIN)

MAKLYAYEV, F.L.; SMIRNOV, I.V.; MARKOV, S.M.; LOSHADKIN, N.A.; ANIKIYENKO, K.A.

Reactivity of the nitrophenyl esters of phosphoric and phosphinic acids. Zhur.ob.khim. 33 no.12:3833-3838 D '63.   (MIRA 17:3)
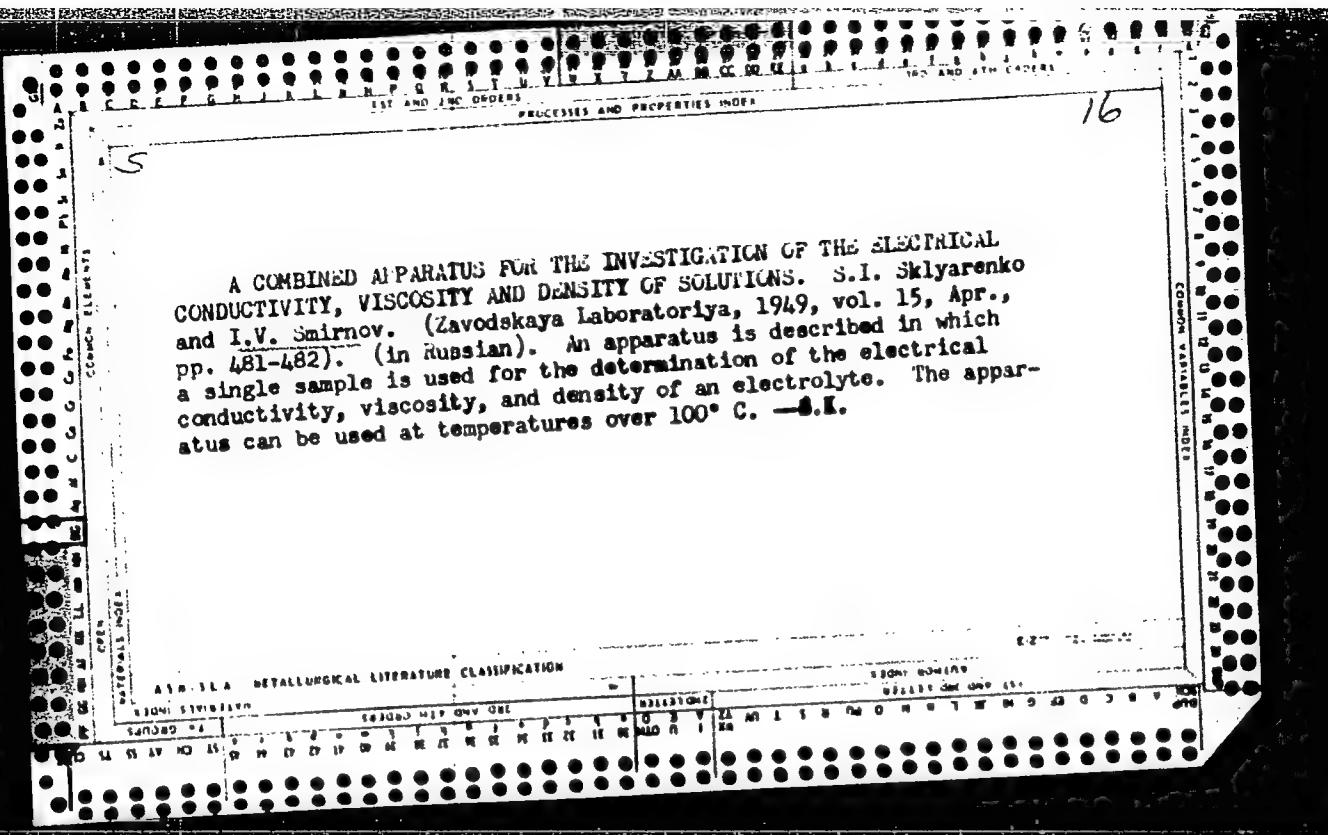
POSTAVNAIA, V. I.; SMIRNOV, I. V.

"Preservation of bull semen by means of spermatozoa reversible inactivation by carbonic acid."

report submitted to 5th Intl Cong, Animal Reproduction & Artificial Insemination, Trent, Italy, 6-13 Sep 64.

SMIRNOV, I. V.

"Electrical Conductivity of Liquids and Double Liquid
Systems." Thesis for degree of Cand. Chemical Sci.
Sub 5 Apr 49, Military Academy of Chemical Defense
imeni K. Ye. Voroshilov.

Summary 82, 18 Dec 52, Dissertations Presented For
Degrees in Science and Engineering in Moscow in 1949.
From Vechernyaya Moskva, Jan-Dec 1949.

A COMBINED APPARATUS FOR THE INVESTIGATION OF THE ELECTRICAL CONDUCTIVITY, VISCOSITY AND DENSITY OF SOLUTIONS. S.I. Sklyarenko and I.V. Smirnov. (Zavodskaya Laboratoriya, 1949, vol. 15, Apr., pp. 481-482). (in Russian). An apparatus is described in which a single sample is used for the determination of the electrical conductivity, viscosity, and density of an electrolyte. The apparatus can be used at temperatures over 100° C. —A.K.

SMIRNOV, I. V.

Electrical conductivity, viscosity, and density of aqueous solutions of orthophosphoric acid. S. I. Sklyarenko and I. V. Smirnov. Zhur. Fiz. Khim. 25, 24-8(1951).—D., cond., and viscosity of aq. solns. contg. 0.28 to 87.2 mol. % H_3PO_4 were measured at 25, 35, 42, 50, and 75°. There is a max. in the sp. cond. at 15% (25°), shifting to 20% H_3PO_4 at 75°. Two straight lines intersecting at about 50% are obtained in a plot (log λ, mol. %), λ being the mol. cond. The viscosity continuously increases with the concn. at all temps. There is a min. in the curve giving the corrected cond. (λ × η/η$_{H_2O}$) as a function of diln. The relation between the corrected cond. and the concn. (mol. %) is complex. The temp. dependence of λ is linear above 18.17%. The temp. dependence of the relative viscosity is exponential. All data are given in tables. M. B.

SMIRNOV, I.V.

USSR/Chemistry - Cadmium   Aug 52

"The Electrical Conductivity, Viscosity, and Density of Solutions of Cadmium Iodide in Methyl Alcohol at Room and Low Temperatures," S. I. Sklyarenko, I. V. Smirnov, and M. G. Zhukova; Power Inst im V. M. Molotov, Moscow

Zhur Fiz Khim, Vol 26, No 8, pp 1125-1130

From an examn of the form of the isotherms and polytherms of elec cond and viscosity, and from observations on the behavior of solns of CdI_2 in MeOH during their storage and evaporation, the following conclusions are drawn: (1) In the system CdI_2-MeOH, a

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definite compd is formed, $CdI_2 \cdot 8CH_3OH$. (2) The compd $CdI_2 \cdot 8CH_3OH$ is stable and can be crystallized at temps below $0°$.

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SMIRNOV, I.V.

Experimental plotting of eddy current densities in a conducting sheet. Vest.elektroprom. 27 no.6:52-55 Je '56.
(MLRA 10:8)

1.Voyenno-vodzdushnaya inzhenernaya Akademiya imeni N.Ye. Zhukovskogo.
(Electric currents, Eddy)

ACCESSION NR: AP4024768

AUTHOR: Sklyarenko, S. I.; Smirnov, I. V.; Ry*sev, A. P.

TITLE: Derivation of lithium hydroxide in a solid cathode by electrolysis of a lithium chloride solution in an electrolyzer with a filtering diaphragm

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 3, 1964, 568-574

TOPIC TAGS: Lithium hydroxide, electrolysis, lithium chloride, filtering diaphragm, solid cathode, lithium chloride solution

ABSTRACT: This research was concerned with the process of electrolysis of aqueous solutions of lithium chloride with the use of a horizontal filtering diaphragm. A series of physical chemical properties of the catholyte were also studied. Electrolysis of aqueous solutions of lithium chloride with concentrations from 2.5 mol./liter to 12.51 mol./liter, in an electrolyzer with a filtering diaphragm and a solid cathode indicated that it is possible to obtain saturated and even supersaturated hydroxide solutions with high current efficiency (95-99%), by electrolysis of aqueous solutions of lithium chloride in electrolyzers with a filtering diaphragm in a solid cathode. It is possible to precipitate, in the form of the monohydrate LiOH . H$_2$O, up to 50% of that formed during hydroxide

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ACCESSION NR: AP4024768

electrolysis by control of catholyte concentration. The hydroxide which remains
in the catholyte after part of it has been precipitated in solid form, can be
precipitated in the form of lithium carbonate by means of carbonic acid gas
saturation. The chloride solution can be used repeatedly for electrolysis after
separation of the carbonate residue and neutralization of the solution with a
small amount of hydrochloric acid. It was indicated that the ratios which permit
a calculation of current efficiency and chloride concentration in the catholyte,
are well confirmed quantitatively during conditions where hydroxide concentrations
in the catholyte are less than required for saturation at a given temperature.
Orig. art. has: 6 tables, 2 figures.

ASSOCIATION: none

SUBMITTED: 19Dec61   DATE ACQ: 16 Apr64   ENCL: 00

SUB CODE: CH   No. REF. SOV: 004   OTHER: 000

Card 2/2

ACCESSION NR: AP4024767   S/0080/64/037/003/0557/0567

AUTHOR: Sklyarenko, S. I.; Smirnov, I. V.

TITLE: Diaphragm method of obtaining hydroxides of alkali metals and its applicability for obtaining lithium hydroxide

SOURCE: Zhurnal prikladnoy khimii, v. 37, 1964, 557-567

TOPIC TAGS: Diaphragm method, hydroxide, alkali metal, lithium hydroxide, electrolysis, alkali metal chloride

ABSTRACT: This study is directed to a general theoretical examination of a method of electrolysis of alkali metal chloride solutions using filtering diaphragms and the application of this method to the derivation of lithium hydroxide. In the steady state of electrolysis of saturated lithium chloride solution with the derivation of an unsaturated alkali solution, linear dependence should be maintained between concentration of chloride (C_1) and lithium hydroxide (C_2) in the catholyte, having the form $C_1 = 13.54 - 0.515C_2$. The following linear dependence was established during the steady process of electrolysis between chloride concentration in the anolyte (C_a) and alkali concentration in the catholyte: $C_a \approx 13.54 - 0.13C_2$. It was found that during electrolysis of unsat-

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ACCESSION NR: AP4024767

urated chloride solutions, linear dependence should also be maintained between concentrations of hydroxide (C_2) and chloride (C_1) in the catholyte: $C_1 = C_8 - K_k C_2$ whereupon the dependence between the concentration, feeding the electrolyzer of chloride (C_8) solution, and coefficient K_k is practically the same for all alkali metals. It is expressed by the equation $K_k = 0.995 - 0.0355C_8$. It was indicated that the maximum current efficiency during electrolysis of the saturated lithium chloride solution, as in the case of sodium and potassium, approaches 100% (99%); current efficiency should not drop noticeably to the lithium hydroxide solution saturation. During electrolysis of solutions of lithium chloride of moderate concentrations, a reduction in current efficiency is possible with considerable concentrations of hydroxide in the catholyte; however, this reduction in current efficiency should be less abrupt than in the case of sodium hydroxide and potassium hydroxide. Orig. art. has: 2 figures, 1 table.

ASSOCIATION: none

SUBMITTED: 13Dec61   DATE ACQ: 16Apr64   ENCL: 00

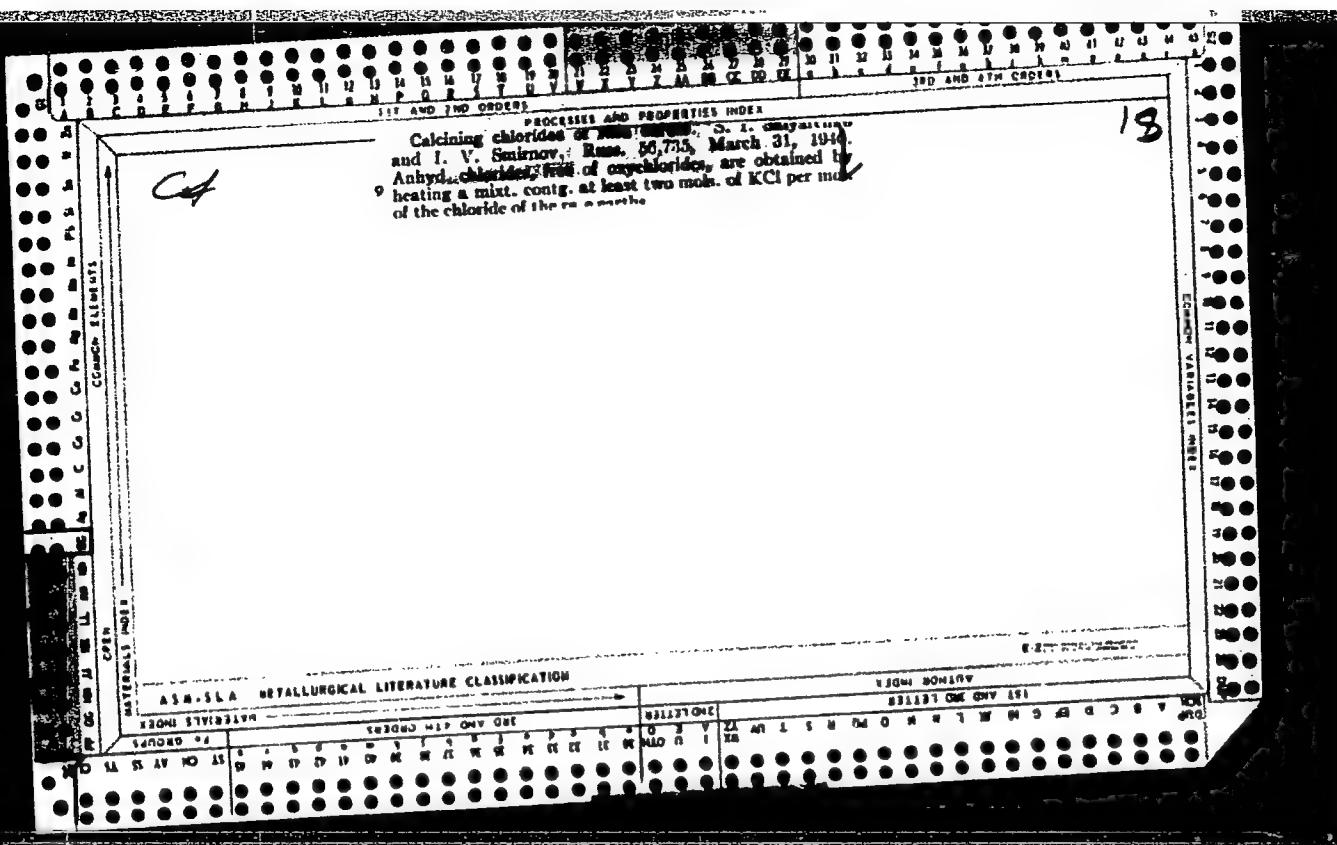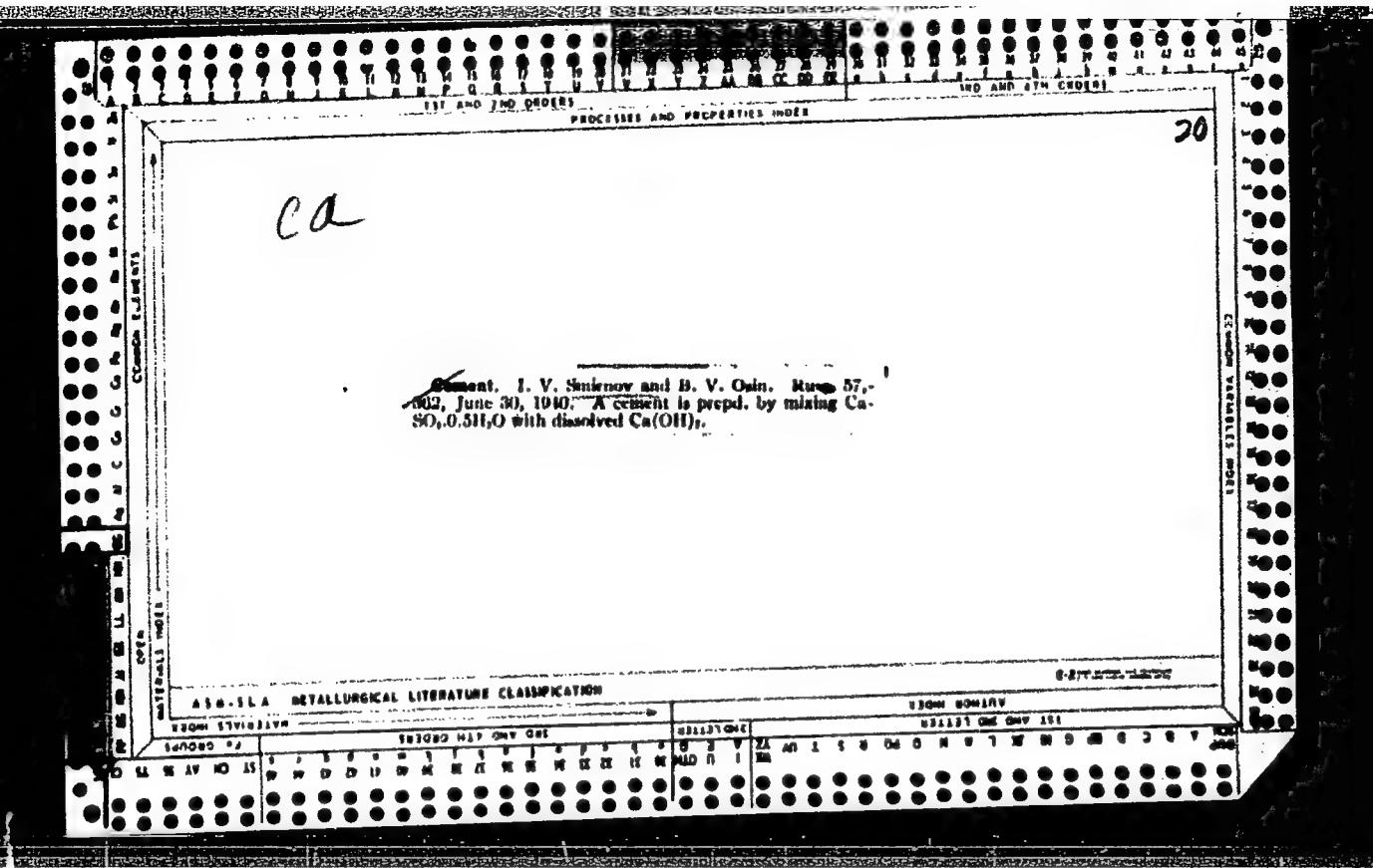SUB CODE: CH   No. REF. SOV: 010   OTHER: 001

Card 2/2

SKLYARENKO, S.I.; SMIRNOV, I.V.; RYSEV, A.P.; SHEVTSOVA, N.S.

Production of cesium hydroxide by electrolysis of cesium
chloride in an electolyzer with a horizontal filtering
diaphragm. Zhur.prikl. khim. 37 no. 5:1036-1041 My '64.
                                        (MIRA 17:7)

SHMARLIN, S.I.; BASH, A. .; SHILLAN, I.V.: CHERNYSH, I.T.

Electrolysis of an aqueous solution of a mixture of potassium
and lithium chlorides with a moving mercury electrode. Zhur.
prikl. khim. 38 no.4:849-855 Ap '65.   (MIRA 18.6)

PROCESSES AND PROPERTIES INDEX

Calcining chlorides of rare earths, S. I. dragonrich and I. V. Smirnov, Russ. 56,775, March 31, 194-. Anhydro chlorides free of oxychlorides, are obtained by heating a mixt. contg. at least two mols. of KCl per mol. of the chloride of the rare earths.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Ca

70

Cement. I. V. Smirnov and B. V. Osin. Russ. 57,-
.002, June 30, 1940. A cement is prepd. by mixing Ca-
SO₄.0.5H₂O with dissolved Ca(OH)₂.

SMIRNOV, I.V.

Prigotovleniye V Stroitel'stve Molotoy Negashenoy (2 west)
Preparation and Utilization of Slaked Quicklime For Building Purposes
Moskva   Izd-vo "Pravda"   1950

23p.   Tables, Diagrs.
At head of Title: Vsesoyuznoye
Obshchestvo po Rasprostraneniyu Poliyicheskikh I Nauchnykh Znaniy.

On new methods, Technology and employment of slaked quicklime.

1.   SARKOV, I. V.

2.   USSR (600)

4.   Lime

7.   Cooperation
     Nauka i zhinz' no. 10, 1952

9.   <u>Monthly</u> <u>List</u> <u>of</u> <u>Russian</u> <u>Accessions</u>, Library of Congress, <u>January</u>   1953, Unclassified.

1. SMIRNOV, I. V.

2. USSR (600)

4. Concrete Construction

7. Thoughts about concrete, Tekh. molod., 20, No. 11, 1952.

9. <u>Monthly List of Russian Accessions</u>, Library of Congress, __February__ 1953. Unclassified.

TOKAREV, F.V., izobretatel', Geroy Sotsialisticheskogo Truda; SMIRNOV, I.V., izobretatel' v oblasti stroymaterialov; POKROVSKIY, G.I., professor, do'ktor tekhnicheskikh nauk; SHIRKOV, I.P., novator stroitel'noy industrii; CHIKIREV, N.S., novator; KOTOVA, S.A., novator, brigadir pryadil'shchits; LOGIN, M.I., izobretatel', inzhener; SLIVOCHKIN, F.P., ratsionalizator; MERKULOV, I.A., izobretatel', konstruktor dvigateley; KOSMATOV, N.V., izobretatel' v oblasti kino; KHLEBTSEVICH, Yu.S., izobretatel', kandidat tekhnicheskikh nauk; SHCHADILOV, V.I., ratsionalizator-naladchik.

"Inventor" has a pround ring to it! Tekh. mol. 25 no.3:1-3 Mr '57.
(MIRA 10:6)

1. Deputat Verkhovnogo Soveta SSSR (for Shirkov). 2. Nachal'nik tsekha zavoda imeni Sergo Ordzhonikidze (for Chikirev). 3. Fabrika imeni Kalinina (for Kotova). 4. Termitnostrelochnyy zavod (for Login). 5. Zavod "Kauchuk" (for Slivochkin).
(Inventions)

AUTHOR: S. Semenov, I.   29-58-6-7/19

TITLE: Cement From Local Raw Materials (Tsement iz mestnogo syr'ya)

PERIODICAL: Tekhnika Molodezhi, 1958, Vol 26, Nr 6,
             pp 12 - 13 (USSR)

ABSTRACT: Cement is called the "bread" of building industry. Especially
the building contractors working in far-off and only to a small
extent populated regions are hungry for cement. Modern cement
industry which works with special raw material uses a very com-
plicated technology. Great works with expensive plants are
necessary for the production of cement. The necessary raw materials
do not exist in this region. Already in 1825 Yegor Cheliyev had
the method of production of "Martel'" patented. This is a cement
of slaked lime and common loam. This method was forgotten, which
it did not deserve. Nowadays when the properties of unslaked
lime are known and the new "hydration theory" worked out by B. V.
Osin, Candidate of Technical Sciences, is used, the simple me-
thod of cement production by Cheliyev can be developed upon
a new basis. Approximately 30 years ago the author of this ar-
ticle discovered new properties of lime, i.e., the hydration

Card 1/2

Cement From Local Raw Materials

29-58-6-7/19

hardening. This theory as well as the experience of Cheliyev have convinced of the fact that a simplified cement production is only possible if the fundamental processes in the production of cement clinker are separated into two parts. The first part is the burning of limestone in order to obtain lump lime (komovaya izvest'). The second part is the rapid sintering of the layer which consists of a mixture of loam and unslaked lime, in very simple sintering apparatus of small caliber. The principle of separated technology is already used successfully in the Karpov brick works in the town of Gorkiy and in the Domodedov lime works in Moscow. The fundamental scheme of the cement production is shown on the second page of the cover. The scheme of the physical-chemical transformation process of lime and loam into clinker cement is shown by a figure on page 13. There are 2 figures.

1. Cement--Production   2. Cement--Materials

Card 2/2

SMIRNOV, I. V.

"Preservation of the Sperm of Agricultural Animals by Means of Deep Freezing"   (Review)

Sov. Zootekhniya, 1949, No 4, pp70-75
Letopis Zhurnal'nykh Statey, 1949, item # 25871

SMIRNOV, I. V.

25871

Sokhranehii spermy sel'skokhozyactbinh zhivothykh posreostboiu glubokato okharhdema.
(Prerat) Sovzootekhniya, 1949, No. 4, s. 93-96.

SO: Letopis' No. 34

SMIRNOV, I. V.

"News about Anabiosis," Nauka I Zhizn', No. 11, 1949. Cand. Biol. Sci.

/? "New Developments in Anabiosis," ibid., p 33 - -W-18972, 26 Jul 1951 - in dossier/

SMIRNOV, I. V.

"Determination of Sugar in the Liver of Healthy, Sick and Killed Animals as an
Auxiliary Method in the Appraisal of Meat Quality"

SO: Uchen. Zapiski, Kazansk Gos. Vet In-ta im Bauman, Vol 56, 1949, pp161-63

Letopis' Zhurnal'nykh Statey, 1949, item #34938

//F

Quick-freezing semen of farm animals. I. V. Smirnov (Ukrainian Inst. for Research in Animal Husbandry, Kharkov). *Zhur. Obshchei Biol.* (J. Gen. Biol.) **11**, 185-97(1950).—Stability of the protoplasm of animal semen in the vitreous state is confirmed by tests at $-78°$, $-183°$, and $-196°$. Insemination of females with semen kept 2-32 days at these temps. showed 33-100% retention of initial capacity to produce normal young. The tests included rabbits, sheep, cattle, and horses. I. F. S.

MIKHLIN, I. V.

1.

2.

3.

4.

5.

SMIRNOV, I. V.

Bees

Some new data on the sperm of drones. Pchelovodstvo 30, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, _____June_____1953, Uncl.

Smirnov

Q-1

USSR/Farm Animals. General Problems

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35600

Author   : Smirnov I.V.
Inst   : Not Given
Title   : Technique of the Deep-Freezing of the Semen of Farm Animals

Orig Pub : Sb. tr. Khar'kovsk. zootekhn. in-ta, 1956, 8, 45-50

Abstract : It is recommended to allow small packages with semen, made of
           thin aluminum foil, to stand for one minute of dry ice, and
           then to transfer them into liquid oxygen; this procedure
           increases the preservation of semen by 5-10%.

Card   : 1/1

SMIRNOV, I.V., [Smyrnov, I.V.], kand.biol.nauk (Terezino, Kiyevskoy oblasti)

Artificial insemination of livestock. Nauka i zhyttia 8 no.10: 38-40 '58.
(MIRA 13:4)
(Artificial insemination)

KLASSEN, Kh.I., kand. sel'skokhozyaystvennykh nauk.;MIKHNOVSKIY, D.K., kand. biol. nauk.; SMIRNOV, I.V., kand. biol. nauk

New methods and forms in breeding. Zhivotnovodstvo 20 no. 10:59-64
O '58.   (MIRA 11:10)

(Artificial insemination)

KOZENKO, T.M., kand. sel'skokhozyaystvennykh nauk,;SMIRNOV, I.V.,kand. biol.
nauk

Artificial insemination of swine. Zhivotnovodstvo 20 no. 10:80-
85 0 '58.   (MIRA 11:10)
                    (Swine breeding)
                    (Artificial insemination)

KLASSEN, Kh.I., kand.sel'skokhoz.nauk; SMIRNOV, I.V., kand.biolog. nauk

Urgent problems in the work of stations for artificial insemi-
nation. Zhivotnovodstvo 21 no.10:15-23 O '59.
(MIRA 13:2)

1. Kiyevskaya opytnaya stantsiya zhivotnovodstva "Terezino".
(Ukraine--Artificial insemination)

ZORIN, Ivan Gerasimovich [Zorin, I.H.]; SMIRNOV, Igor' Vasil'yevich
[Smyrnov, I.V.]; EYSNER, Fedor Fedorovich [Eisner, F.F.]; MA-
ZUR, V.M., red.; MANOYLO, Z.T. [Manoilo, Z.T.], tekhn. red.

[Artificial insemination of livestock together with breeding
principles] Shtuchne osimeninnia sil'skohospodars'kykh tvaryn
z osnovamy pleminnoi spravy. Kyiv, Vyd-vo Ukrains'koi akade-
mii sil'skohospodars'kykh nauk, 1960. 253 p. (MIRA 14:12)

1. Chlen-korrespondent Ukrainskoy akademii sel'skokhozyaystven-
nykh nauk (for Zorin).
    (Artificial insemination) (Stock and stock breeding)

SMIRNOV, I.V., kand.biologicheskikh nauk

Practical and scientific significance of blood groups of farm
animals. Zhivotnovodstvo 23 no.7:68-71   Jl '61. (MIRA 16:2)
(Blood groups)
(Artificial insemination)

SMIRNOV, I.V., kand.biolog.nauk; POSTAVNAYA, V.I., kand.biolog.nauk

New method for determining the resistance of semen. Zhivotnovodstvo
24 no.5:70-71 My '62.   (MIRA 16:10)

ANDRIYEVSKIY, Vasiliy Yakovlevich [Andriievs'kyi, V.IA.];
SMIRNOV, Igor' Vasil'yevich [Smyrnov, I.V.];
LIPSKA, V.K.[Lips'ka, V.K.], red.

[Veterinary obstetrics, gynecology, and artificial
insemination] Veterinarne akusherstvo, ginekologiia i
shtuchne osimeninnia. Kyiv, Urozhai, 1965.   415 p.
(MIRA 19:1)

1. SMIRNOV, I.V.

2. USSR (600)

4. Rotation of Crops - Maritime Territory

7. Adopting crop rotation systems on collective farms ofthe Maritime Territory. Sov.agron 10, no. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified

SMIRNOV, I.V., red.

[Reclamation of new lands in the East; Estern Siberia and the Far
East] Osvoenie novykh zemel' na Vostoke, Vostochnaya Sibir' i Dal'niy
Vostok. Moskva, Sel'khozgiz, 1957. 181 p.   (MIRA 11:3)
        (Siberia, Estern--Reclamation of land)
        (Soviet Far East--Reclamation of land)

SMIRNOV, Ivan Vasil'yevich; KUBASOV, G.M., red.; SAYTANIDI, L.D., tekhn.red.

[Harvest seeds of wild forage plants] Sobiraite semena dikorastushchikh kormovykh trav. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 24 p.   (MIRA 14:1)
                    (Forage plants)

SMIRNOV, L.V.

Theoretical basis of the principle of cultivation of uni-
cellular algae. Biofizika 8 no.1:96-100 '63.   (MIRA 17:8)

SMIRNOV, K.

Progressive methods in ship repairing. Rech. transp.
21 no.12:25-26 D '62.   (MIRA 15:12)

1. Direktor Astrakhanskogo sudoremontnogo zavoda imeni
Lenina.
                    (Ships--Maintenance and repair)

SMIRNOV, K.

Switching on luminescent lamps without the use of a starter.
Pozh.delo 8 no.12:14-15 D '62.   (MIRA 16:1)

1. Nachal'nik Ivanovskoy pozharno-ispytatel'noy stantsii.
            (Fluorescent lamps)

OREL, V., red.; BELOV, V., red.; GALKIN, S., red.; KRAMINOV, A.,
    red.; SMIRNOV, K., red.; SHOSTAKOVSKIY, V., red.; SILNEVA,N.,
    red.

[Virgin-land planet] Planeta TSelina. Moskva, Molodaia
gvardiia, 1965. 157 p.   (MIRA 18:4)

9.1300

S/058/60/000/008/006/009
A005/A001

Translation from: Referativnyy zhurnal, Fizika, 1960, No. 8, p. 320, # 21065

AUTHOR: Smirnov, K.A.

TITLE: Experimental Investigation of a Resonance Line Stretcher With
             Variable Coupling in a Rectangular Waveguide [25]

PERIODICAL: Tr. Leningr. elektrotekhn. in-ta svyazi, 1959, No. 2 (39) pp. 31-46

TEXT: The results are presented from an experimental investigation of
resonance line stretchers at 10 cm wavelength. The author shows the possibility
of practical realization of both the narrow-band and wide-band waveguide band-
elimination filters, based on the application of resonance line stretchers. The
designs of band-elimination filters are presented and their frequency charac-
teristics are added, which were obtained experimentally. A simple method for
measuring very small values of the travelling wave ratio in waveguide channels
is suggested. (Part I see: RZhFiz, 1958, No. 12, # 28199).

                                                    Author's summary

Translator's note: This is the full translation of the original Russian
                    abstract.

Card 1/1